

Title (en)

AQUEOUS ENERGY CURABLE INKJET INKS

Title (de)

WÄSSRIGE ENERGIEHÄRTBARE TINTENSTRAHLDRUCKTINTEN

Title (fr)

ENCRE AQUEUSES POUR IMPRESSION À JET D'ENCRE DURCISSABLES PAR ÉNERGIE

Publication

EP 4087903 A4 20230913 (EN)

Application

EP 20912632 A 20200110

Priority

US 2020013063 W 20200110

Abstract (en)

[origin: WO2021141597A1] An aqueous energy curable inkjet ink that includes (A) a non-photopolymerizable resin, (B) a water-soluble photopolymerizable monomer, (C) a pigment having an average particle size of 50 to 300 nm, and (D) at least 25 wt. % water, based on a total weight of the aqueous energy curable inkjet ink. A printed article including the aqueous energy curable inkjet ink in dried and cured form, and a method of forming a printed image with an inkjet printhead are also provided.

IPC 8 full level

C09D 11/101 (2014.01); **C09D 11/10** (2014.01); **C09D 11/102** (2014.01); **C09D 11/106** (2014.01); **C09D 11/107** (2014.01); **C09D 11/322** (2014.01); **C09D 11/38** (2014.01)

CPC (source: EP US)

C09D 11/101 (2013.01 - EP); **C09D 11/102** (2013.01 - EP); **C09D 11/106** (2013.01 - EP); **C09D 11/107** (2013.01 - EP US); **C09D 11/322** (2013.01 - EP US); **C09D 11/36** (2013.01 - US); **C09D 11/38** (2013.01 - EP US)

Citation (search report)

- [X] EP 0658607 A1 19950621 - CANON KK [JP]
- [X] JP 2014189715 A 20141006 - SEIKO EPSON CORP
- [X] EP 2371572 A1 20111005 - FUJIFILM CORP [JP]
- [X] EP 1792744 A1 20070606 - KONICA MINOLTA MED & GRAPHIC [JP]
- [E] EP 4083150 A1 20221102 - SAKATA INX CORP [JP]
- See also references of WO 2021141597A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2021141597 A1 20210715; CN 114938652 A 20220823; EP 4087903 A1 20221116; EP 4087903 A4 20230913; JP 2023517268 A 20230425; JP 7503637 B2 20240620; US 2023048141 A1 20230216

DOCDB simple family (application)

US 2020013063 W 20200110; CN 202080092378 A 20200110; EP 20912632 A 20200110; JP 2022542150 A 20200110; US 202017789812 A 20200110